

Bmk. No. A-30
Chief Engineer, WJ-4742-15

MAJOR DUTIES

Serves as Chief Engineer of a self-propelled, automated, seagoing, diesel powered hopper dredge engaged in the maintenance and improvement of harbors and channels leading from these harbors.

1. Incumbent is responsible for the 24 hour operation of the automated engine room department, supervising and directing the work of those subordinates engaged in the operation, maintenance and repair of all engine room machinery, electrical systems, and auxiliary mechanized equipment of the dredge. Plans, lays out, and directs daily operations. Issues verbal written orders and instructions to key subordinates as to the special and unusual work to be performed, in addition to routine work involved. Posts watch schedules in advance and keeps accurate records of hours and shifts worked for submission to timekeeper. Certifies correctness of Time and Attendance cards for engine room department and submits requests for necessary overtime on a timely basis. Trains or directs the training of subordinates. Insures that subordinate personnel comply with all pertinent safety regulations. Trains subordinates in safe work methods and utilization of all prescribed safety equipment.

2. Responsible for the continued operation and maintenance of the engine room. Makes periodic checks of engine room machinery, auxiliary plants, electrical systems, refrigerating, plumbing and heating systems, dredging pumps and machinery, propelling equipment, etc., for the purpose of maintaining all in good working order and directing necessary repairs as required. Supervises the making of repairs, and performs the most difficult repair work personally. Requisitions parts, supplies and replacements as needed. Manages the shipboard spare parts inventory and coordinates the shore-based activity.

3. Makes estimates and submits recommendations for annual repairs for the engine room department to keep the dredge in first class operating condition for the following year. Periodically inspects watertight bulkhead doors to insure efficient operation. Inspects repairs accomplished to ascertain that work is satisfactory, and that machinery and equipment are in good operating condition.

4. Conducts personnel administration by assigning work to subordinates. Plans regular and emergency work requirements. Initiates or participates in review and improvement of work methods and structuring of positions. Evaluates results of work in terms of economy, simplicity and accuracy. Establishes performance requirements and prepares regular performance appraisals. Periodically reviews job descriptions of subordinates for currency and accuracy. Counsels employees regarding conduct, leave, benefits, and non-performance and initiates necessary disciplinary action. Promotes participation of subordinates in programs such as safety, cost reduction, incentive awards, suggestions, and EEO. Approves leave of subordinates.

Performs other duties as assigned.

SKILLS AND KNOWLEDGES

Required to possess a Chief Engineer license for vessels of sufficient rating issued by the U. S. Coast Guard. Must understand the principles of operation of an automated engine room monitoring system, the care and maintenance of that

system, and operation of maintenance management system. Must be able to operate and maintain marine machinery and tools. Has a basic working skill of welding.

RESPONSIBILITY

Works under the general administrative supervision of the Master of the vessel but with complete technical responsibility for the proper functioning, maintenance and repair of all dredging, mechanical, and deck machinery and electrical equipment aboard the vessel. Work is reviewed by actual observation or through the medium of reports. Overall performance is evaluated in terms of performance standards established by the supervisor.

WORKING CONDITIONS

Subject to dangers caused by extreme heat, moving machinery, hot pipes, escaping steam, slippery decks, etc., although not to the same degree as subordinate workers, who are continuously exposed to such hazards, since incumbent moves from one location to another. There may be danger in event of a collision. Incumbent works regularly in areas where noise exceeds 80 decibels. Incumbent is exposed to the effects of paints, acids, and solvents.

PHYSICAL EFFORT

Incumbent is required to exert moderate to heavy physical effort in handling engine room equipment. Incumbent must possess color perception in order to perform troubleshooting and repair work on the full range of equipment.